

AMENDMENT NO. 1 SEPTEMBER 2022

TO

**IS 2590 : 1987 SPECIFICATION FOR PRIMARY ALUMINIUM INGOTS FOR
REMELTING FOR GENERAL ENGINEERING PURPOSES
(*Second Revision*)**

(*Page 3, Foreword 0.3*) — Substitute ‘IS 2 : 2022 ‘Rules for rounding off numerical values
(*second revision*)’ for ‘IS : 2-1960*’.

(*Page 3, footnote**) — Delete.

(*Page 4, clause 2*) — Insert the following new clause after Clause 1.1 and renumber the subsequent clauses:

‘2 REFERENCES

The following Indian Standards contain provisions, which through reference in text, constitute provisions of this standard. At the time of publications, the editions indicated were valid. All standards are subjected to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No</i>	<i>Title</i>
IS 504 : Part 1 To 12 : 2002	Chemical analysis of aluminium and its alloys parts 1 to 12 (<i>second revision</i>)
IS 504 : Part 13 to 16 : 2003	Chemical analysis of aluminium and its alloys parts 13 to 16 (<i>second revision</i>)
IS 1820 : 1979	Recommended shapes, sizes and mass of aluminium notched bars and ingots for remelting purposes (<i>first revision</i>)
IS 10259 : 1982	General condition of delivery and inspection of aluminium and aluminium alloy products

Price Group 2

Amendment No. 1 to IS 2590 : 1987

(Page 4, clause 3.1) — Substitute 'IS 10259' for 'IS 10259 - 1982*'.

(Page 4, clause 6.1.1) — Substitute 'IS 504 (Part 1 to 12) and (Part 13 to 16)' for 'IS 504 - 1963†'.

(Page 4, footnote *) — Delete.

(Page 4, footnote †) — Delete.

(Page 5, Table 1) — Substitute the following for the existing table:

Table 1 Chemical Composition of Primary Aluminium for Remelting for General Engineering Purposes

(Clause 6.1)

COMPOSITION LIMITS ARE IN PERCENT MAXIMUM UNLESS SHOWN OTHERWISE

Sl No.	Grade IS designation	Grade 1 19 700	Grade 2 19 600	Grade 3 19 500	Grade 4 19 000	Grade 5 1 970
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Aluminium, <i>Min</i>	99.7	99.6	99.5	99	99.7
ii)	Copper, <i>Max</i>	0.03	0.04	0.05	0.1	0.03*
iii)	Silicon, <i>Max</i>	0.2	0.25	0.3	0.5	0.1
iv)	Iron, <i>Max</i>	0.25	0.35	0.4	0.6	0.2
v)	Manganese, <i>Max</i>	0.03	0.03	0.05	0.1	0.03*
vi)	Zinc, <i>Max</i>	0.06	0.07	0.1	0.1	0.03
vii)	Mg, <i>Max</i>	—	—	—	—	—
viii)	Ga is, <i>Max</i>	—	—	—	—	0.04
ix)	V, <i>Max</i>	—	—	—	—	0.03*
x)	Titanium + Vanadium, <i>Max</i>	0.05	0.05	0.07	0.07	—
xi)	Other elements (each), <i>Max</i>	0.05	0.05	0.07	0.1	0.03
xii)	Others Total, <i>Max</i>	—	—	—	—	0.1

NOTES

- 1 Other impurities do not preclude the possible presence of other unnamed elements. However analysis shall regularly be made only for the impurities listed in the table. The major element (Aluminium) shall be determined by difference between the sum of total elements analysed (and permitted within maximum limits) and 100 percent. By agreement between manufacturer and purchaser, analysis may be required and limits established for elements not specified.
- 2 '* If required by the purchaser only and in such case, the limits shall be as per the agreement between

purchaser and the supplier subject to maximum limits as specified in the table.

(Page 5, clause 7.1) — Substitute 'IS 1820' for 'IS : 1820 - 1979*'.
*(Page 5, footnote *)* — Delete.

(MTD 7)